Claims

We Claim:

- A method for applying an elastic member to an article web defining a pair of article web side edges, said method comprising:
- i) providing said elastic member, wherein at least a portion of said elastic member is elongatable in at least a cross machine direction and defines an elastic member width;
- ii) moving said elastic member in a machine direction along an elastic member web path;
- iii) providing a pair of rotatable wheels in said elastic member web path, said pair of wheels defining:
 - a) a pair of inboard edges,
 - b) a pair of outboard edges opposite said inboard edges,
 - c) an elastic member entry location having an elastic member entry location width that is less than said elastic member width, and
 - d) an elastic member exit location having an elastic member exit location width that is greater than said elastic member entry width;
- iv) engaging said elastic member with said pair of wheels at said elastic member entry location wherein a portion of said elastic member is located beyond each of said inboard edges of said pair of wheels thereby defining a pair of outboard portions of said elastic member and an inboard portion of said elastic member;
 - v) rotating said elastic member with said pair of wheels; and
- vi) applying said elastic member to said article web proximate said elastic member exit location wherein said outboard portions of said elastic member extend beyond said article web side edges.
- 2. The method of claim 1 wherein providing said elastic member comprises:
 - i) providing an elastic material web;
- ii) forming a line of weakness in said elastic material web to define a trailing edge of the elastic member:
- iii) cutting said elastic material web to define an leading edge of the elastic member; and
- iv) separating said elastic material web at said line of weakness into discrete elastic members.

- 3. The method of claim 2 further comprising:
 - i) providing an adhesive application assembly; and
 - ii) applying an operative amount of adhesive to said elastic material web.
- 4. The method of claim 3 wherein said operative amount of adhesive is applied in a rectilinear pattern.
- 5. The method of claim 3 wherein said operative amount of adhesive is registered with said leading edge and said trailing edge.
- 6. The method of claim 3 wherein said operative amount of adhesive does not contact said pair of wheels.
- 7. The method of claim 2 wherein said trailing edge is curvilinear.
- 8. The method of claim 2 wherein said trailing edge defines "w" shape.
- 9. The method of claim 1 wherein engaging said elastic member comprises holding said elastic member on said pair of wheels with vacuum.
- 10. The method of claim 1 wherein engaging said elastic member comprises holding said elastic member on said pair of wheels with a pair of transfer bands.
- 11. The method of claim 10 wherein said pair of transfer bands wraps said pair of rotatable wheels at least between said entry location and said exit location.
- 12. The method of claim 10 comprising:
 - i) providing an adhesive application assembly; and
- ii) applying an operative amount of adhesive to said web of elastic material; wherein said adhesive does not contact said pair of wheels or said transfer bands.
- 13. The method of claim 1 wherein rotating said elastic member with said pair of wheels elongates said inboard portion of said elastic member at least 50%.
- 14. The method of claim 1 wherein said pair of wheels each further define a wheel diameter of from between 0.3 meters to 2.0 meters.

- 15. An apparatus for applying an elastic member to an absorbent article comprising:
 - i) a pair of rotatable wheels, said pair of wheels defining:
 - a) a pair of inboard edges,
 - b) a pair of outboard edges,
 - c) an outer surface,
 - d) an elastic member entry location having a first distance between said inboard edges, and
 - e) an elastic member exit location having a second distance between said inboard edges that is larger than said first distance;
- ii) a wheel drive system connected to said pair of wheels for rotating said wheels about said central axis; and
- iii) a vacuum system connected to each of said wheels wherein said vacuum system includes a plurality of openings in at least a portion of the outer surface and at least one source of vacuum.
- 16. The apparatus of claim 15 further comprising a pair of transfer bands, wherein each of said bands individually wraps at least a portion of one of said pair of wheels.
- 17. The apparatus of claim 16 wherein said bands wrap said pair of wheels at least from said entry location to said exit location.
- 18. A method for attaching an elastic member to an article comprising:

providing an article web having opposing article web side edges and defining between said article web side edges a chassis width;

providing a plurality of elastic members each having an inboard portion and a pair of outboard portions;

stretching said inboard portion such that said elastic members define a stretched length that is greater than said chassis width; and

attaching the inboard portion to said article web between the article web side edges.

- 19. The method of claim 18 wherein said outboard portions are further elongatable in use.
- 20. The method of claim 18 further comprising separating the article web into a plurality of articles, and wherein said elastic members provide waist elastics and a pair of ears on said articles.